

DIAGNOSIS AND TREATMENT OF CHEMORESISTANT TUMORS

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Inventor(s):

Applicant(s):

Classification:

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- European: **C07K16/28A28; C12Q1/68M6B; G01N33/50D2B**

Application number: JP20040513743T 20030618

Priority number(s): US20020390256P 20020618; US20030456585P 20030321; WO2003US19492 20030618

Also published as:

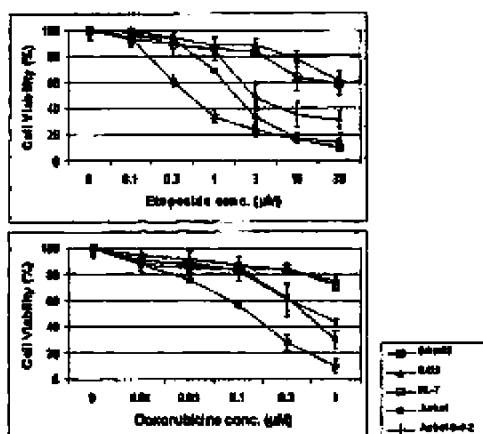
WO03106974 (A2)
WO03106974 (A3)
EP1551990 (A2)
EP1551990 (A4)
CA2489726 (A1)

more >>

Abstract not available for JP 2005529616 (T)

Abstract of corresponding document: **WO 03106974 (A2)**

This invention provides methods of identifying compounds that selectively target cancer cells that have defects in specific oncogenic pathways.



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(12) 公表特許公報(A)

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D

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A 6 1 K 45/00

A 6 1 K 39/395

N

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A 6 1 P 35/00

A 6 1 K 45/00

審査請求 未請求 予備審査請求 未請求 (全 35 頁) 最終頁に続く

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(33) 優先権主張国 米国 (US)

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ス 1 1 6 9 2

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(54) 【発明の名称】 化学療法耐性腫瘍の診断および治療

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A large grid of dots forming a pattern that resembles a stylized 'A' or a similar character, with some dots missing or faded in certain areas. The pattern is composed of many small black dots arranged in a grid-like fashion, with some dots missing or faded in certain areas, creating a sparse, dotted appearance. The overall shape is roughly rectangular, with a central vertical column of dots and horizontal rows of dots extending outwards, suggesting a stylized letter or symbol.

[illegible]

A 100x100 grid of dots. A 10x10 square of dots is located in the top-left corner, starting from the top-left dot and extending to the 10th dot in both the horizontal and vertical directions. The remaining dots form a large rectangular area to the right and below this square.

A 100x100 grid of dots. The dots are arranged in a pattern that forms a stylized letter 'A'. The top row has 100 dots. The second row has 98 dots, with the two dots at the far left and far right missing. This pattern of missing dots continues down to the 50th row, which has only 2 dots (at the far left and far right). The 51st row has 98 dots again, with the two dots at the far left and far right missing. This pattern continues down to the 100th row, which has 100 dots. The overall shape is a large 'A' that is widest at the top and bottom and narrowest in the middle.

This image shows a full page of dot grid paper. The dots are small, black, and arranged in a precise, repeating square pattern across the entire surface. There are no margins, text, or other markings present.

This image shows a full page of dot grid paper. The dots are arranged in a precise, repeating grid pattern across the entire surface. There are no margins, text, or other markings present. The dots are small, dark gray, and evenly spaced both horizontally and vertically.

A 100x100 grid of dots. The dots are arranged in a pattern that forms a large, stylized letter 'A'. The 'A' is composed of a central vertical column of dots and two diagonal columns of dots that meet at the top. The background of the grid is filled with dots, but the 'A' shape is defined by the absence of dots in certain positions. The 'A' is approximately 20 units wide and 80 units high. The top of the 'A' is a single dot at the center. The base of the 'A' is a horizontal row of dots. The sides of the 'A' are formed by dots that are spaced out in a way that creates a triangular shape. The overall effect is a high-contrast, black-and-white image of a grid with a specific geometric pattern.

A 100x100 grid of dots. A faint, large, light-gray watermark is visible in the background, reading "www.dreamtore.com". The watermark is oriented diagonally from the bottom-left to the top-right.

A large grid of dots forming a pattern that resembles a stylized 'A' or a similar character, with some dots missing or faded in the center. The pattern is composed of many small dots arranged in a regular grid, with some dots missing or faded in the center, creating a hollow or semi-transparent effect. The overall shape is roughly rectangular, with the 'A' shape formed by the arrangement of dots. The dots are small and black, set against a white background. The pattern is symmetrical and has a high degree of regularity, suggesting it might be a digital or computer-generated graphic. The 'A' shape is formed by the arrangement of dots, with some dots missing or faded in the center, creating a hollow or semi-transparent effect. The overall shape is roughly rectangular, with the 'A' shape formed by the arrangement of dots. The dots are small and black, set against a white background. The pattern is symmetrical and has a high degree of regularity, suggesting it might be a digital or computer-generated graphic.

A large grid of dots forming a stylized lowercase letter 'a'. The letter is composed of a series of dots arranged in a pattern that is wider at the top and bottom and narrower in the middle, with a small gap at the top. The dots are arranged in a regular grid, with the letter's shape defined by the density and placement of the dots. The background is white, and the dots are black. The letter 'a' is centered horizontally and vertically within the grid. The grid is approximately 100 dots wide and 100 dots high. The letter 'a' is formed by a series of dots that are arranged in a pattern that is wider at the top and bottom and narrower in the middle, with a small gap at the top. The dots are arranged in a regular grid, with the letter's shape defined by the density and placement of the dots. The background is white, and the dots are black. The letter 'a' is centered horizontally and vertically within the grid.

This image shows a full page of dot grid paper. The dots are arranged in a precise, repeating square pattern across the entire surface. There are no margins, text, or other markings present. The dots are small, black, and evenly spaced both horizontally and vertically.

[illegible]

[illegible]

This image shows a full page of dot grid paper. The dots are arranged in a precise, repeating grid pattern across the entire surface. There are no margins, text, or other markings present.

[illegible]

A large grid of dots, approximately 30 rows by 30 columns. The dots are arranged in a regular grid, but many are missing, creating a sparse pattern. The missing dots are concentrated in certain areas, such as the top right and bottom right, while other areas are more densely populated. The overall effect is a textured, almost abstract representation of a grid.

A 20x20 grid of dots. The dots are arranged in a regular grid. Some dots are missing, creating patterns. For example, there are several horizontal lines of dots, some with gaps. There are also some clusters of dots that form small shapes. The overall pattern is sparse and irregular.

A large grid of dots, approximately 100 columns wide and 100 rows high. The dots are arranged in a regular grid, but many are missing, creating a sparse pattern. The missing dots are concentrated in certain areas, such as the top-left and bottom-right corners, and along some horizontal and vertical lines. The overall effect is a textured, almost abstract representation of a grid.

This image shows a full page of dot grid paper. The dots are arranged in a precise, repeating grid pattern across the entire surface. There are no margins, text, or other markings present.

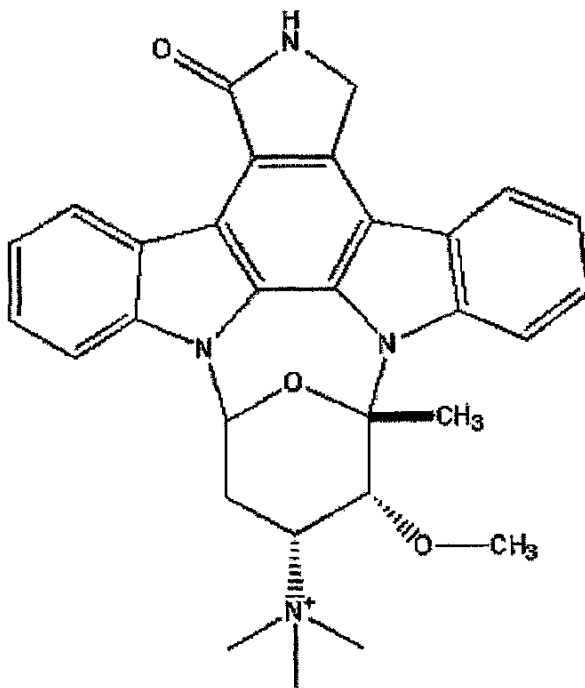
[illegible]

[illegible]

This image shows a full page of dot grid paper. The dots are arranged in a precise, repeating grid pattern across the entire surface. There are no margins, text, or other markings present. The dots are small, dark gray, and evenly spaced both horizontally and vertically.

This image shows a full page of dot grid paper. The background is white, and it is covered with a regular pattern of small black dots. The dots are arranged in straight horizontal and vertical lines, creating a grid of small squares across the entire page. There are no margins, text, or other markings present.

This image shows a full page of dot grid paper. The dots are arranged in a precise, repeating grid pattern across the entire surface. There are no margins, text, or other markings present. The dots are small, dark gray circles on a white background.



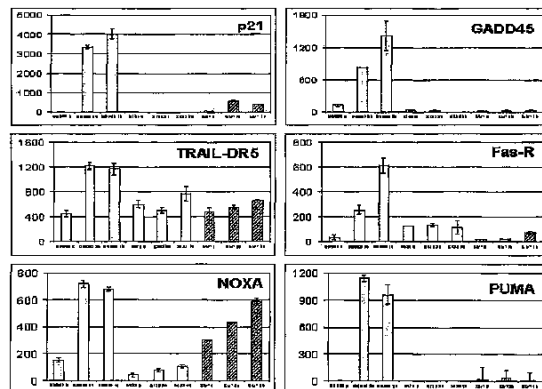
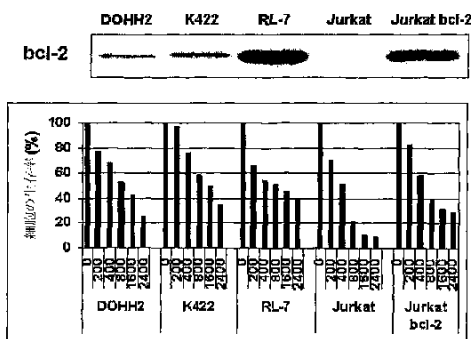
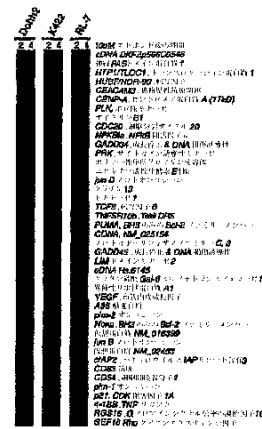
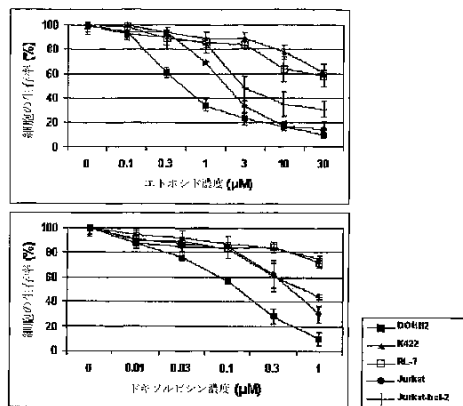
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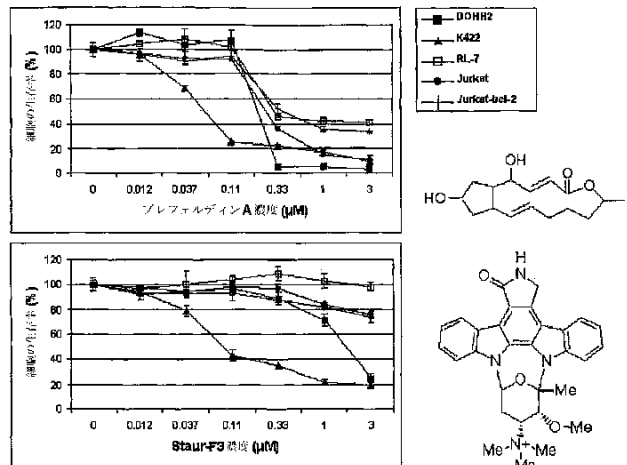
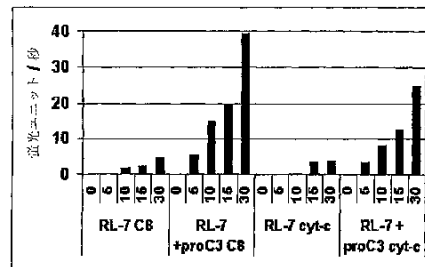
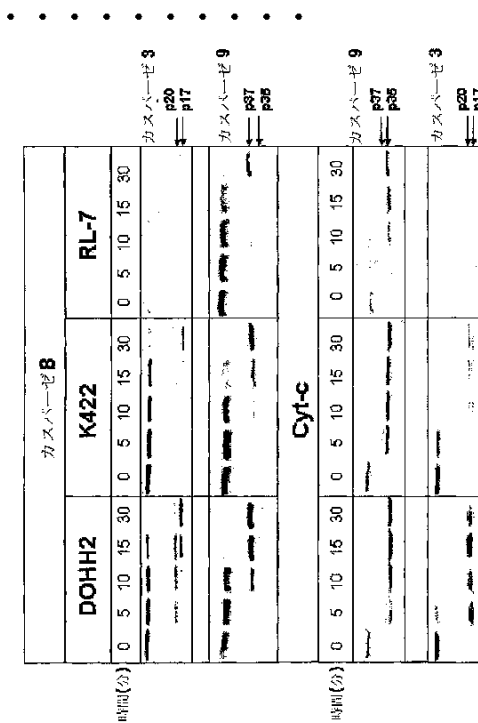
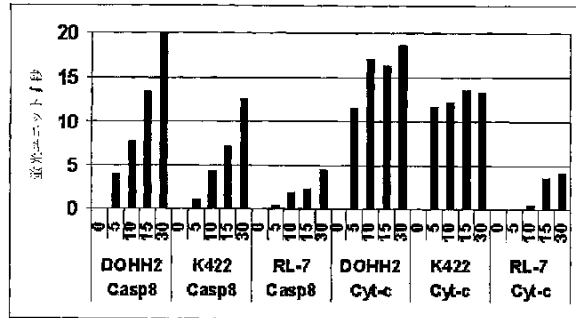
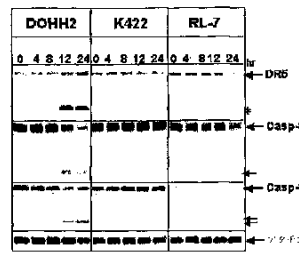
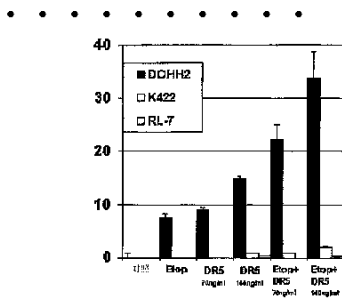
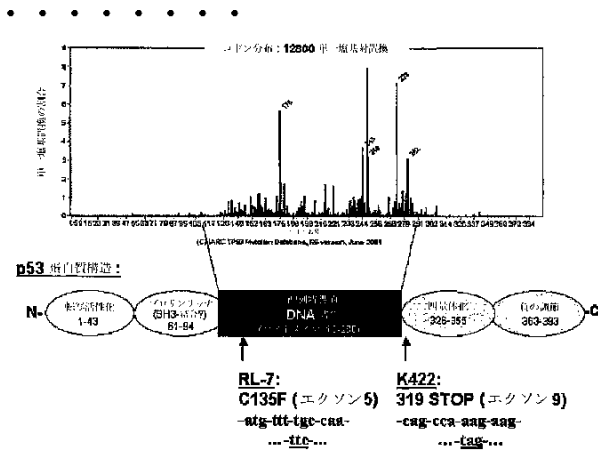
A 20x20 grid of dots. A horizontal line is drawn across the grid, starting from the left edge and ending at the 12th dot from the left. The line is positioned between the 10th and 11th rows. The dots in the 10th row are highlighted in red. The dots in the 11th row are highlighted in red. The dots in the 12th row are highlighted in red. The dots in the 13th row are highlighted in red. The dots in the 14th row are highlighted in red. The dots in the 15th row are highlighted in red. The dots in the 16th row are highlighted in red. The dots in the 17th row are highlighted in red. The dots in the 18th row are highlighted in red. The dots in the 19th row are highlighted in red. The dots in the 20th row are highlighted in red.

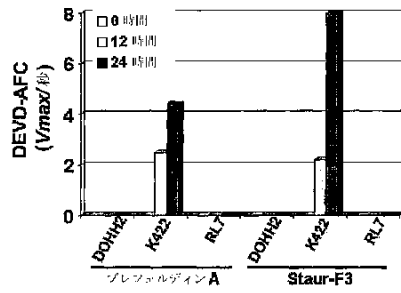
ホスファチジルイノシトール キナーゼ関連
H.s.マイトジェン活性化蛋白質キナーゼキナーゼ5(MAP3K5), mRNA
JIK-STE20様キナーゼ
H.s. MAPキナーゼと相互作用するセリン/スレオニンキナーゼ1(MKNK1), mRNA
ヒトKIAA0930蛋白質mRNA、部分的cds
H.s.マイトジェン活性化蛋白質キナーゼ活性化蛋白質キナーゼ2(MAPKAPK2)、転写物変異型1, mRNA
ホスファチジルイノシトールキナーゼ関連
H.s.マイトジェン活性化蛋白質キナーゼキナーゼ5(MAP2K5)
Q03533セリン/スレオニン蛋白質キナーゼ
Q62862セリン/スレオニンファミリーの蛋白質キナーゼ関連
H.s.サイクリン依存性キナーゼ6(CDK6), mRNA
H.s.アクチビンA受容体タイプII様1(ACVRL1), mRNA
H.s. Gardner-Rasheedネコ肉腫ウイルス(v-fgr)オンコジーンホモログ(FGR), mRNA
ヒトTGFβ誘導性核蛋白質TINP1(TINP1) mRNA、完全cds.
H.s.骨格筋、受容体チロシンキナーゼ(MUSK), mRNA
ヒトCGI-53蛋白質mRNA、完全cds.
H.s. ベンズイミダゾール非阻害出芽1(酵母ホモログ)(BUB1), mRNA
H.s.リボゾーム蛋白質S6キナーゼ、90kD、ポリペプチド5(RPS6KA5), mRNA
H.s. CDC様キナーゼ2(CLK2)転写物変異型phclk2, mRNA
2117904リボースリン酸ピロホスホキナーゼ関連
H.s. v-yes-1ヤマグチ肉腫ウイルス関連オンコジーンホモログ(LYN), mRNA
MAPK7: マイトジェン活性化蛋白質キナーゼ7
H.s. p21/Cdc42/Rac1-活性化キナーゼ1(酵母Ste20関連)(PAK1), mRNA
H.s. v-aktマウス胸腺腫ウイルスオンコジーンホモログ1(AKT1), mRNA
MAPK9: マイトジェン活性化蛋白質キナーゼ9
H.s.マイトジェン活性化蛋白質キナーゼキナーゼキナーゼ4(MAP4K4), mRNA
H.s. MEKキナーゼ1(MEKK1) mRNA、部分cds
ヒトCGI-06蛋白質mRNA、完全cds.
H.s. FAK関連GTPase調節因子
ヒトnemo様キナーゼ(LOC51701), mRNA
H.s. CHK1(チェックポイント、S.pombe)ホモログ(CHEK1), mRNA
H.s. tousled様キナーゼ(TLK1), mRNA
CALM3: カルモジュリン3(ホスホリラーゼキナーゼδ)
プレB細胞白血病転写因子1
ヒトcDNAFLJ20594 fls, クローンKAT08731
ヒト、CG8405遺伝子産物類似、クローンMGC:4022, mRNA、完全cds
未知の蛋白質キナーゼ
MAP蛋白質キナーゼ関連

染色体III中の仮説47.6 KD蛋白質に中程度に類似
H.s. p21 (CDKN1A)活性化キナーゼ4(PAK4), mRNA
H.s. v-erb-b2赤芽球性白血病ウイルスオンコジーンホモログ3(ERBB3), mRNA
ヒト胚肺蛋白質(HUEL) mRNA、完全cds.
H.s. グリコーゲンシンターゼキナーゼ3α(GSK3A), mRNA
DR4 trail受容体1
Bid
22番染色体にマッピングされるヒト新規遺伝子
H.s. Bリンパ系チロシンキナーゼ(BLK), mRNA
カスパーゼ8
Apaf-1
Fadd

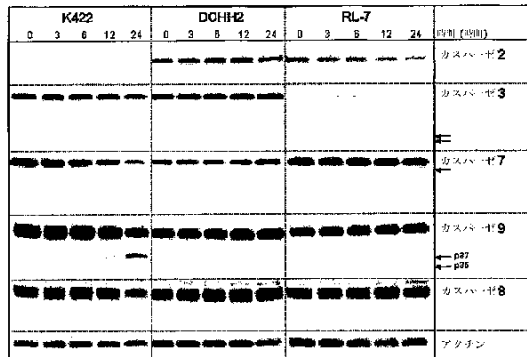
This image shows a full page of dot grid paper. The background is white, and it is covered with a regular pattern of small black dots. The dots are arranged in a precise grid, with equal spacing between them both horizontally and vertically. This type of paper is commonly used for sketching, journaling, and taking notes. There are no margins, text, or other markings on the page.



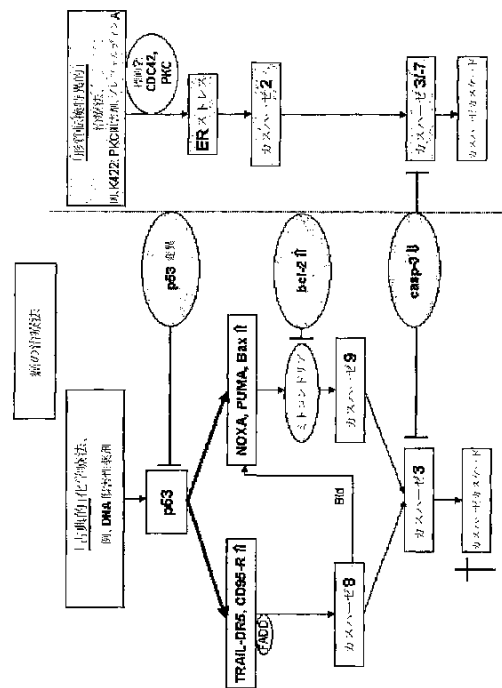
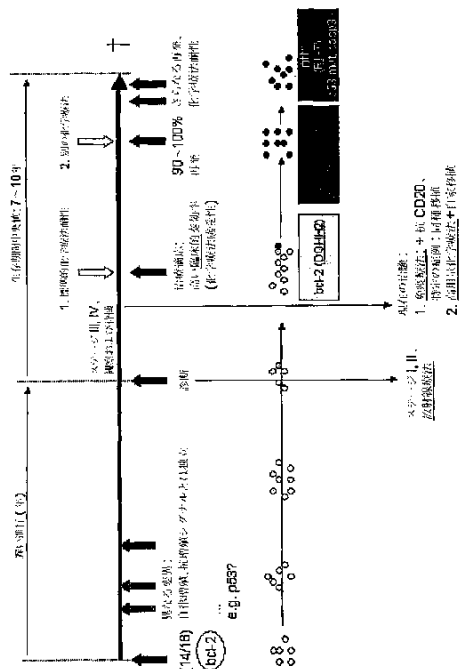
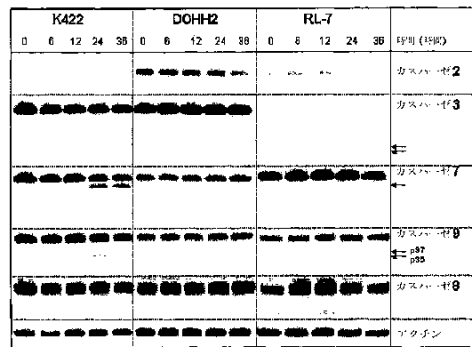




プレフェルディン A



Staur-F3



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/19492

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/00; G01N 33/48; A61K 49/00, 39/00

US CL : 435/4; 436/64; 424/9.1, 184.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/4; 436/64; 424/9.1, 184.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
MEDLINE, USPATENTS, WIPO

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EVDOKIOU, A. et al. Chemotherapeutic Agents Sensitize Osteogenic Sarcoma Cells, But Not Normal Human Bone Cells, To APO2L/TRAIL-Induced Apoptosis. Int. J. Cancer. 01 June 2002, Vol. 98, pages 491-504, especially page 501.	1, 5, 7, 11
X	WANG, Q. et al. UCN-01: a Potent Abrogator of G2 Checkpoint Function in Cancer Cells With Disrupted p53. Jnl. Natl. Cancer Inst. 17 July 1996, Vol. 88, No. 14, pages	21-23
X	WO 99/09165 A1 (IDUN PHARMACEUTICALS, INC.) 25 February 1999 (25.02.1999), pages 28-31, 37	1, 11, 24,
Y		2-3
A	WO 98/41629 A2 (HUMAN GENOME SCIENCES, INC.) 24 September 1998 (24.09.1998) entire article.	1, 12, 24, 39
X	WO 96/31603 A2 (THE REGENTS OF THE UNIVERSITY OF MICHIGAN) 10 October 1996 (10.10.1996) entire article, especially page 40.	43-45, 47-49

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"B" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

23 March 2004 (23.03.2004)

Date of mailing of the international search report

15 APR 2004

Name and mailing address of the ISA/US

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Gary B. Nickol Ph.D.

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